

In the Specification

11/22/04
Please replace the paragraph beginning on page 7, line ¹⁴~~11~~ with the following three re-spaced paragraphs:

"FIG. 1A illustrates an embodiment of a spaced-based power system with free-floating components, and

____ FIGS. 1B-D illustrate views an embodiment of a system to control the positioning and alignment of power system components; and

____ FIG. 1E illustrates an alternative embodiment having a phased array antenna;"

Please replace the paragraph beginning on page 19, line 1 with the following rewritten paragraph:

"For example, referring to Figures 1B-D, in another embodiment, the primary mirror 2 includes four sensors, and the intermediate mirrors 4 and 5 include eight sensors. Figures 1C and 1D illustrate cross-sectional views showing one possible sensor arrangement. In the illustrated embodiment, four proximity control system sensors 2a on the primary mirror 2 and a corresponding four sensors 4a on the mirror 4 are arranged to look at or communicate with each other. Similarly, four additional proximity control system sensors 4a on the mirror 4 and corresponding four sensors 5a on the mirror 5 are arranged to communicate with each other. Four additional units 5a on the mirror 5 and four units 8a on the module 8 are arranged to communicate with each other. Additionally, four units 9a on the emitters 9 and four units 10a ~~10~~ on the reflector 10 are arranged to communicate with each other."

Please replace the paragraph beginning on page 25, line 9 with the following rewritten paragraph:

"Referring to Figure 5, in one embodiment, a space-based power system includes a lens system that includes parabola and hyperbola shaped lenses, such as a Cassagrain optical system, inflatable mirrors, and membrane support elements. More specifically, the system includes a primary mirror 2, a mirror 50, membranes 50a-d, such as transparent membranes, a first intermediate mirror 4, a module that includes concentrators 6, solar cells 7, an RF or optical module 8, RF transmitter feeds or optical emitters 9 ~~8~~, and a thermal panel 11 (as in Figure 1), a second intermediate mirror 52, and a reflector 10."